

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438729

Luminaire Tested: CB2-085U-085D-840-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438729  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-085U-085D-840-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

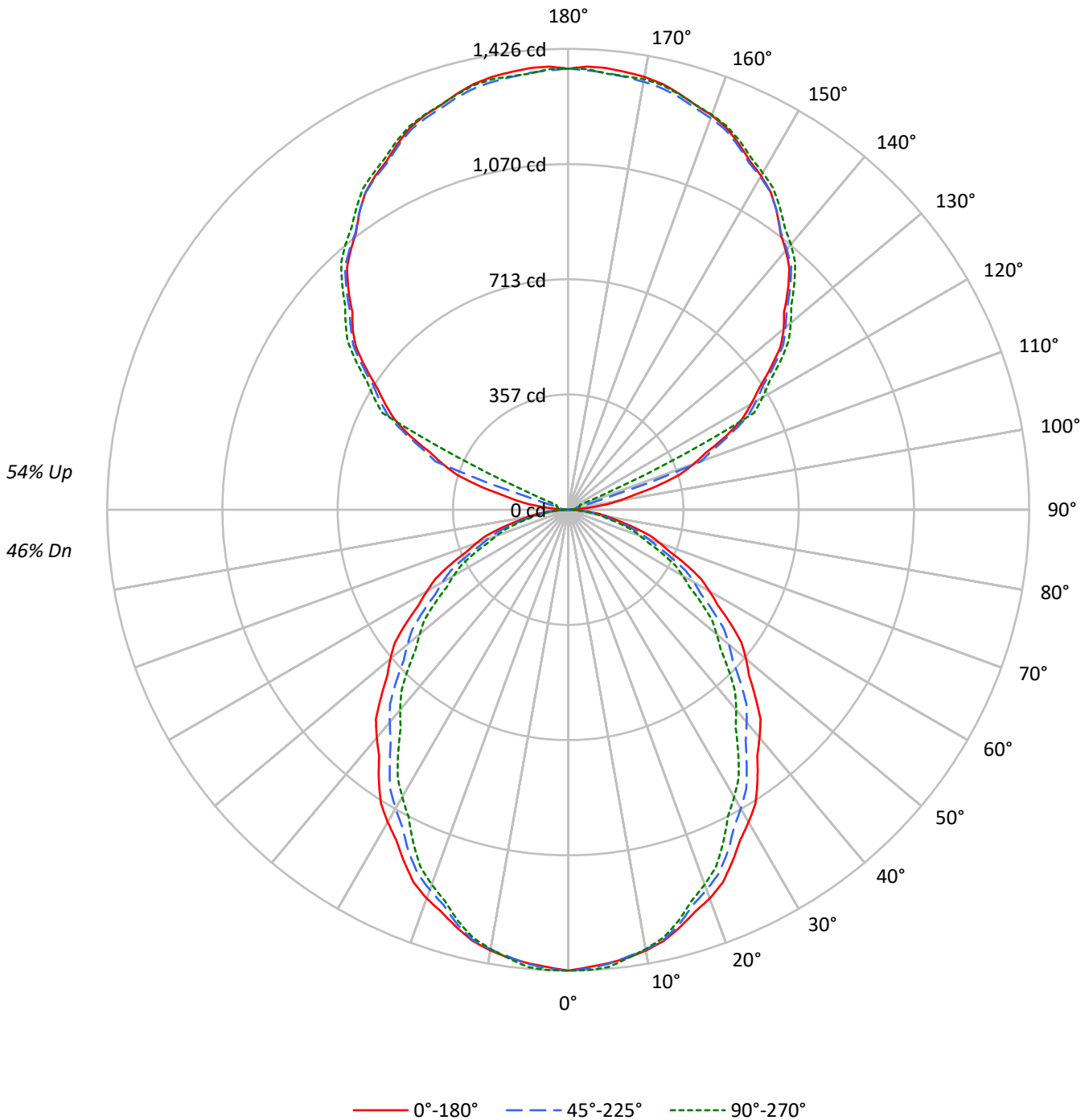
Lumens per Lamp: N/A  
Luminaire Lumens: 7217.2 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46								
1	97	93	89	86	89	85	82	79	71	69	67	59	57	55	47	46	45	39								
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	39	38	33								
3	81	72	64	59	74	66	60	55	55	51	47	46	42	40	37	34	32	28								
4	74	63	56	50	68	59	52	46	49	44	40	41	37	34	33	30	28	24								
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21								
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19								
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17								
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15								
9	50	38	31	26	46	35	29	24	30	25	21	26	21	19	21	18	16	14								
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24844	24844	24844
5°	24633	24671	24845
10°	24493	24435	24416
15°	24107	23948	23751
20°	23727	23200	22876
25°	23088	22439	21808
30°	22449	21461	20649
35°	21713	20459	19485
40°	20934	19519	18376
45°	20151	18535	17299
50°	19444	17580	16247
55°	18572	16583	15256
60°	17578	15637	14268
65°	16518	14585	13279
70°	15349	13403	12013
75°	13964	12127	10875
80°	12488	10622	9860
85°	9612	8733	7194

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20151 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	1.9
10°-20°	373.9	5.2
20°-30°	537.6	7.4
30°-40°	604.3	8.4
40°-50°	583.7	8.1
50°-60°	493.2	6.8
60°-70°	354.3	4.9
70°-80°	193.6	2.7
80°-90°	51.5	0.7
90°-100°	23.8	0.3
100°-110°	151.4	2.1
110°-120°	480.9	6.7
120°-130°	697.8	9.7
130°-140°	750.5	10.4
140°-150°	706.6	9.8
150°-160°	575.6	8.0
160°-170°	374.7	5.2
170°-180°	129.5	1.8
0°-30°	1045.7	14.5
0°-40°	1650.0	22.9
0°-60°	2726.9	37.8
0°-90°	3326.3	46.1
90°-120°	656.0	9.1
90°-150°	2811.0	38.9
90°-180°	3891.0	53.9
0°-180°	7217.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1409	1428	1411	1411	1421	134
15°	1337	1349	1328	1315	1317	377
25°	1201	1202	1168	1141	1135	553
35°	1021	1010	962	925	916	638
45°	818	801	752	713	702	632
55°	612	589	546	512	502	547
65°	401	386	354	329	322	397
75°	208	195	180	166	162	222
85°	48	45	44	38	36	57
90°	0	0	0	1	1	4
95°	54	16	17	11	10	69
105°	284	295	30	35	36	299
115°	538	549	554	561	322	529
125°	764	777	778	791	801	683
135°	961	973	971	977	990	741
145°	1125	1134	1126	1127	1142	703
155°	1249	1257	1243	1241	1258	576
165°	1332	1336	1322	1316	1330	376
175°	1372	1374	1357	1348	1355	130
180°	1365	1365	1365	1365	1365	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.4	1426.4	1426.4	1426.4	1426.4
2.5°	1416.8	1433.9	1421.2	1423.0	1425.5
5°	1408.9	1428.2	1411.1	1411.3	1421.0
7.5°	1398.9	1417.1	1395.6	1391.7	1400.6
10°	1384.9	1403.1	1381.6	1374.1	1380.5
12.5°	1366.6	1383.9	1363.3	1351.4	1357.0
15°	1336.9	1348.6	1328.1	1315.1	1317.2
17.5°	1304.5	1311.8	1282.2	1271.3	1269.1
20°	1280.1	1286.5	1251.7	1236.3	1234.2
22.5°	1248.6	1254.2	1217.6	1198.7	1195.7
25°	1201.4	1202.5	1167.6	1141.2	1134.8
27.5°	1152.1	1148.6	1109.9	1078.7	1070.4
30°	1116.2	1112.0	1067.1	1034.1	1026.7
32.5°	1077.8	1070.1	1025.1	989.6	982.1
35°	1021.2	1009.5	962.2	924.9	916.4
37.5°	960.9	947.7	901.3	860.7	851.0
40°	920.7	905.8	858.5	817.8	808.2
42.5°	880.5	863.9	815.7	775.0	764.5
45°	818.1	801.0	752.5	713.0	702.3
47.5°	758.6	736.9	689.8	650.5	639.8
50°	717.6	694.1	648.8	610.3	599.6
52.5°	675.6	651.3	607.7	571.0	560.3
55°	611.6	589.2	546.1	512.0	502.4
57.5°	548.3	526.7	487.3	454.8	445.4
60°	504.6	486.4	448.9	418.1	409.6
62.5°	462.7	446.2	410.5	382.3	373.8
65°	400.8	385.9	353.9	328.6	322.2
67.5°	340.8	325.8	299.9	277.3	270.0
70°	301.4	286.5	263.2	242.3	235.9
72.5°	263.9	248.1	229.1	210.0	205.3
75°	207.5	194.7	180.2	165.9	161.6
77.5°	157.7	145.3	134.8	124.7	123.6
80°	124.5	113.8	105.9	99.4	98.3
82.5°	93.1	84.9	79.7	74.9	74.7
85°	48.1	44.9	43.7	38.2	36.0
87.5°	14.0	14.0	12.2	10.7	10.7
90°	0.0	0.0	0.0	1.0	1.0
92.5°	15.0	5.7	3.9	5.7	5.7
95°	54.3	15.7	16.8	10.8	9.9
97.5°	112.7	25.3	24.3	26.7	27.6
100°	156.9	51.7	26.6	30.6	31.6
102.5°	205.8	194.8	27.4	33.0	34.7
105°	284.2	294.8	29.6	34.6	36.5
107.5°	361.1	371.7	137.7	35.8	37.7
110°	412.4	423.0	436.1	36.6	38.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	460.6	473.5	483.5	81.3	40.1
115°	537.7	549.3	554.5	560.9	321.7
117.5°	605.8	620.1	625.9	637.0	647.8
120°	653.2	666.7	670.9	682.1	693.6
122.5°	699.7	711.7	714.3	727.0	737.8
125°	763.7	777.2	777.5	790.6	801.2
127.5°	827.6	839.2	838.7	848.4	860.2
130°	870.2	878.0	878.1	886.3	898.9
132.5°	905.8	916.6	916.8	923.4	936.0
135°	961.0	972.6	970.9	977.1	989.6
137.5°	1012.9	1024.1	1021.0	1026.2	1039.2
140°	1046.9	1056.5	1051.8	1057.1	1071.5
142.5°	1078.4	1088.1	1081.0	1085.5	1100.7
145°	1124.8	1133.5	1125.8	1127.1	1141.6
147.5°	1166.0	1174.5	1165.3	1166.6	1180.1
150°	1192.9	1200.6	1188.9	1190.2	1203.7
152.5°	1216.6	1223.5	1211.0	1210.8	1226.6
155°	1249.1	1256.8	1243.2	1240.6	1258.0
157.5°	1278.7	1285.9	1272.2	1270.3	1283.9
160°	1298.5	1303.3	1289.6	1286.9	1300.4
162.5°	1311.9	1317.5	1303.8	1299.6	1313.1
165°	1332.0	1335.9	1322.1	1316.5	1330.0
167.5°	1349.4	1353.8	1336.1	1331.1	1345.6
170°	1359.6	1362.5	1344.8	1338.3	1352.7
172.5°	1365.9	1368.1	1350.4	1342.9	1352.7
175°	1371.5	1374.4	1356.7	1347.9	1354.7
177.5°	1372.5	1374.0	1360.6	1353.0	1364.6
180°	1364.6	1364.6	1364.6	1364.6	1364.6



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.79	18.61	18.78	19.61	20.93	16.69	17.51	17.68	18.51	19.84
	3H	19.43	20.16	20.43	21.17	22.52	18.21	18.94	19.22	19.96	21.30
	4H	20.06	20.75	21.07	21.76	23.12	18.78	19.48	19.80	20.49	21.85
	6H	20.46	21.09	21.48	22.11	23.48	19.15	19.79	20.18	20.81	22.18
	8H	20.60	21.21	21.64	22.25	23.61	19.29	19.90	20.32	20.94	22.30
	12H	20.68	21.25	21.71	22.28	23.67	19.35	19.93	20.39	20.96	22.35
4H	2H	18.19	18.89	19.21	19.90	21.26	17.32	18.01	18.34	19.03	20.38
	3H	20.06	20.64	21.09	21.68	23.05	19.05	19.63	20.08	20.67	22.04
	4H	20.80	21.33	21.84	22.37	23.76	19.72	20.25	20.76	21.28	22.68
	6H	21.32	21.77	22.37	22.83	24.22	20.19	20.65	21.24	21.71	23.09
	8H	21.52	21.95	22.57	23.00	24.40	20.38	20.81	21.43	21.86	23.26
	12H	21.63	22.01	22.69	23.08	24.48	20.47	20.85	21.53	21.92	23.32
8H	4H	20.95	21.38	22.00	22.43	23.83	19.99	20.41	21.04	21.47	22.87
	6H	21.59	21.94	22.67	23.04	24.44	20.59	20.94	21.67	22.04	23.44
	8H	21.88	22.19	22.96	23.27	24.69	20.87	21.18	21.95	22.25	23.67
	12H	22.06	22.33	23.14	23.40	24.86	21.02	21.29	22.10	22.36	23.82
12H	4H	20.93	21.32	22.00	22.38	23.79	19.99	20.38	21.06	21.44	22.85
	6H	21.62	21.93	22.70	23.01	24.43	20.66	20.96	21.74	22.04	23.46
	8H	21.94	22.21	23.02	23.28	24.74	20.96	21.23	22.04	22.30	23.76